

NEXT GENERATION PLATFORM COMBINES ROBOTICS, AI, & REAL-TIME WITH AUTOMOTIVE CERTIFICATION

RENESAS

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Automotive E/E architecture is moving to centralized and zonal architectures. And vehicle functions are moving from discrete physical components to virtualized software. In this webinar we'll show and demonstrate a solution for quickly developing your Software-Defined Vehicle and achieve ISO 26262 ASIL D.

Apex.AI, Renesas, and SYSGO have joined forces to bring you this solution for Software-Defined Vehicle built upon Renesas R-Car SOCs with SYSGO PikeOS RTOS, hypervisor technology for mixed criticality, and Apex.AI's functionally safe Apex.OS and Apex.Middleware products. The solution is automotive grade and ASIL D SEooC safety certifiable to speed your way to production.

Apex.AI, developer of functionally safe products that simplify software-defined vehicle development, SYSGO GmbH, a Thales subsidiary focussed on certifiable RTOS named PikeOS including hypervisor technology for mixed criticality with real-time capabilities, and Renesas Electronics, a global leader in micro-controllers, analog, power and SoC products have joined forces to develop and demonstrate a new development platform for ADAS and AI.

The platform enables the combination of PikeOS and Apex.OS for a smooth transition from ROS 2 based rapid prototypes in ADAS and AD to the highest ASIL level certified systems with strict partitioning and freedom from interference from other applications. On top of the hypervisor PikeOS enables multiple partitions with POSIX and Linux components, where developers can develop advanced algorithms such as Lidar perception using the solution's easy-to-use abstractions. R-Car V4H SoC provides an optimized solution for ADAS & AD ECUs, including cutting-edge FuSa Support.

ROS[™] →

